



INDUSTRIAL HYGIENE EQUIPMENT PROCEDURES

DRAGER MULTIGAS DETECTOR

10/92

Objective

To provide instruction for the use of the Drager Multigas Detector.

Discussion

The Drager Multigas analyzer is a direct reading instrument for a variety of gases and vapors. The sampling and analytical error is +/- 25% . Due to the wide margin of error, if readings are within 50% of the TLV, another, more accurate method, should be selected to evaluate the exposure.

Equipment

- Drager Multigas Detector Hand Pump
- IH Sampling Notes Form
- Drager Detector Tube

Procedure

1. Perform a leak check on the pump. To do this, seal the pump with an unopened Drager tube and completely compress the bellows. The pump is sufficiently airtight if the bellows has not expanded completely after 10 minutes (the limit chain is not taut). Record if unit passed or failed leak test on IH Sampling Notes form.
2. Read the instruction for the Drager tube which will be used. Note the number of pump strokes which are required and potential interference.
3. Break off both tips of the Drager tube in the break-off eyelet. DO NOT use detector tubes from any other manufacturer. Check the expiration date of the tubes. Note catalog number, lot number, and expiration date of the detector tube on the IH Sampling Notes form. Do not use tubes with an expired shelf life.
4. Insert the tube in the pump head with the arrow pointing towards the pump.

- 5 Fully compress the bellows. The suction process takes place automatically and is completed when the chain is taut.
6. Repeat the suction process as often as specified in the instructions.
7. Evaluate the tube reading as indicated in the instructions.
8. Record results on IH sampling notes form and submit to ES&H Section.